

Cotton.—The month in general was very favorable for the cotton crop. There was no frost of consequence in any part of the belt until the latter part of October, when the northern part had heavy to killing frost quite generally. The leaves of plants were rather widely killed at that time where the frost occurred, but there was no material damage to the crop, while in many places the frost was rather beneficial than harmful, inasmuch as it promoted rapid opening of bolls. Throughout the belt, practically the entire month had unusually favorable weather for picking and ginning, and nearly uninterrupted progress in this work was reported, with harvest well along at the close. In Georgia only scattered fields remained unpicked, and picking was nearly completed in Alabama, Mississippi, and Louisiana, as well as in eastern and southern Texas.

Miscellaneous.—Pastures and meadows in Central and Northern States continued in generally good condi-

tion until the latter part of the month, when dry weather was detrimental. Pastures in most of the Gulf area were badly dried and stock water scarce by reason of the long drought, but there was sufficient moisture in much of the great western grazing sections to be of material benefit. Potato harvest in Northern States made good progress, with the weather especially favorable for this work in the Northeast; reports of yields were generally satisfactory. There was considerable damage to truck crops in Florida by a tropical storm about the 20th of the month, but otherwise conditions were generally favorable for truck and minor crops in the Atlantic coast section. In other portions of the South it was too dry. Sugar cane in Louisiana was very poor and harvesting was delayed. The harvest of sugar beets progressed under generally favorable conditions, though in parts of Utah the soil was too dry.

CLIMATOLOGICAL TABLES

CONDENSED CLIMATOLOGICAL SUMMARY

In the following table are given for the various sections of the climatological service of the Weather Bureau the monthly average temperature and total rainfall; the stations reporting the highest and lowest temperatures, with dates of occurrence; the stations reporting the greatest and least total precipitation; and other data as indicated by the several headings.

The mean temperature for each section, the highest and lowest temperatures, the average precipitation, and the greatest and least monthly amounts are found by using all trustworthy records available.

The mean departures from normal temperatures and precipitation are based only on records from stations that have 10 or more years of observations. Of course, the number of such records is smaller than the total number of stations.

Condensed climatological summary of temperature and precipitation by sections, October, 1924

Section	Temperature								Precipitation					
	Section average	Departure from the normal.	Monthly extremes						Section average	Departure from the normal	Greatest monthly		Least monthly	
			Station	Highest.	Date	Station	Lowest	Date			Station	Amount	Station	Amount
Alabama	65.1	-0.1	Selma	93	14	Saint Bernard	26	24	0.27	-2.56	Healing Springs	1.90	21 stations	u. 00
Arizona	61.1	-0.7	Maricopa	109	1	5 stations	14	10	0.51	-0.40	2 stations	2.35	19 stations	0.00
Arkansas	64.9	+2.6	Searcy	96	12	Dutton	21	25	0.29	-2.71	Eureka Springs	2.13	2 stations	0.00
California	57.6	-3.2	2 stations	104	1	2 stations	10	11	2.93	+1.65	Crescent City	17.86	8 stations	0.00
Colorado	47.6	+1.2	Lamar	95	1	Crested Butte	-2	30	1.44	+0.20	Dillon	4.98	Buena Vista	0.04
Florida	71.7	-1.7	Fort Lauderdale	84	4	De Funik Springs	37	24	10.82	+5.87	New Smyrna	39.08	Bluff Springs	0.25
Georgia	63.2	-1.6	Eatonton	90	19	Blue Ridge	22	24	1.32	-1.50	Saint George	4.45	Tallapoosa	0.29
Hawaii	73.3	-0.4	Waiaue	91	3	Waimea	51	24	10.30	+4.43	Eke	36.00	Puuloa	0.00
Idaho	46.9	+0.5	2 stations	85	15	Idaho City	11	30	2.10	+0.67	Atlanta	5.34	Idaho Falls	0.47
Illinois	60.2	+5.0	Harrisburg	92	10	2 stations	21	23	0.97	-1.61	Clinton	3.39	Anna	T.
Indiana	59.4	+4.8	2 stations	90	9	3 stations	20	23	0.40	-2.30	South Bend	1.47	Vevay	0.00
Iowa	58.1	+6.2	Audubon	89	11	Fayette	21	22	0.87	-1.55	Mount Pleasant	2.58	Rockwell City	0.03
Kansas	60.9	+3.8	Oawker City	100	1	3 stations	19	31	1.27	-0.62	Arkansas City	3.28	Republic	0.25
Kentucky	61.2	+3.1	2 stations	91	5	2 stations	24	23	0.27	-2.33	Calhoun	1.39	4 stations	0.00
Louisiana	68.8	+0.9	Calhoun	98	5	Kelly (near)	27	26	0.12	-3.07	Delta Farms	2.07	21 stations	0.00
Maryland-Delaware	56.0	-0.4	Western Port, Md	88	11	2 stations	15	23	0.40	-2.62	Cambridge, Md	1.78	2 stations	T.
Michigan	53.0	+4.1	Paw Paw	86	10	Vanderbilt (near)	12	22	0.49	-2.29	Eagle Harbor	2.73	Onaway (near)	0.06
Minnesota	53.0	+7.1	Beardsley	87	24	Red Lake	19	21	1.49	-0.55	Itasca State Park	4.66	Bird Island	0.02
Mississippi	66.7	-1.7	3 stations	94	24	Yazoo City	27	24	0.22	-2.44	Walnut Grove	2.00	13 stations	0.00
Missouri	61.8	+4.4	2 stations	92	8	Hollister	21	28	1.22	-1.53	Stover	4.17	3 stations	0.00
Montana	46.6	+2.5	Valentine	90	1	Wheaton	6	11	1.27	+0.20	Heron	3.58	2 stations	0.16
Nebraska	56.7	+5.6	Franklin	97	1	Harrison	21	31	0.99	-0.57	Haigler	2.90	Auburn	0.11
Nevada	50.5	-0.4	Beatty	98	2	Milllett	10	12	1.02	+0.39	Owyhee	2.96	5 stations	0.00
New England	49.6	+0.7	Turner's Falls, Mass	85	11	2 stations	10	30	0.44	-3.06	Somerset, Vt	2.09	Turner's Falls, Mass	0.00
New Jersey	54.4	-0.4	Indian Mills	84	6	Runyon	16	23	0.31	-3.39	Little Falls	2.76	Phillipsburg	0.04
New Mexico	54.8	+1.3	Jal	95	13	3 stations	8	13	0.53	-0.79	Fort Sumner	2.90	7 stations	0.00
New York	50.0	-0.5	Jamestown	86	5	Gabriels	13	23	0.94	-2.93	Hoffmeister	2.71	2 stations	0.00
North Carolina	58.6	-1.5	Lumberton	89	18	Parker	15	22	1.11	-2.31	Southport	3.38	Bryson City	0.11
North Dakota	50.3	+6.5	West Hope	86	11	Jamestown	19	3	2.43	+1.43	Powers Lake	5.74	Washburn	0.97
Ohio	56.1	+2.2	Portsmouth	90	19	3 stations	20	23	0.26	-2.43	Norwalk	0.99	6 stations	0.00
Oklahoma	64.8	+3.3	Arapah	98	4	Hooker	22	31	1.16	-1.77	Cheyenne	4.26	5 stations	0.00
Oregon	49.4	-0.4	Grants Pass	87	1	Fremont	3	11	4.61	+2.32	Willow Creek	19.31	Blitzen	0.32
Pennsylvania	52.9	+0.6	Indiana	87	9	Brady's Bend	14	23	0.28	-3.03	Hawley	2.30	6 stations	0.00
Porto Rico	78.3	+0.1	Dorado	98	22	Toro Negro	55	20	5.86	-2.45	Utua	15.45	2 stations	1.41
South Carolina	62.2	-1.3	3 stations	89	7	Santuck	28	24	1.50	-1.49	Darlington	3.20	Calhoun Falls	0.56
South Dakota	54.6	+6.5	Tyndall	93	1	2 stations	20	26	1.31	+0.32	Vale	5.33	Hardy Ranger Station	0.34
Tennessee	61.4	+1.6	Perryville	93	6	2 stations	21	23	0.34	-2.55	Greeneville	1.38	9 stations	T.
Texas	68.6	+1.1	2 stations	101	3	Romero	22	31	0.58	-2.04	Brownsville	5.12	35 stations	0.00
Utah	47.5	-1.2	Saint George	91	1	Loa	4	29	1.94	-0.01	Silver Lake	3.35	Escalanti	0.00
Virginia	56.8	-0.9	Leeds Manor	88	8	Burkes Garden	14	22	1.14	-1.97	Urbana	3.48	Hot Springs	0.05
Washington	50.0	+0.3	Wapato	84	17	Snyders Ranch	16	10	3.93	+1.04	Forks	23.78	Ellensburg	0.15
West Virginia	54.6	-0.2	3 stations	87	6	Cheat Bridge	14	23	0.40	-2.56	Harpers Ferry	1.28	Morgantown	0.07
Wisconsin	53.7	+5.5	Richland Center	84	19	Minocqua	12	22	0.59	-2.07	Cornucopia	2.36	2 stations	T.
Wyoming	45.6	+2.1	2 stations	83	1	Dixon	6	10	2.13	+1.04	Moran	5.20	Deaver	0.14

1 For description of tables and charts, see REVIEW, January, 1924, pp 56-57.

2 Other dates also.

TABLE I.—Climatological data for Weather Bureau stations, October, 1924

Table with columns: Districts and stations, Elevation of instruments, Pressure, Temperature of the air, Precipitation, Wind, and various weather metrics. Rows are categorized by region: New England, Middle Atlantic States, South Atlantic States, Florida Peninsula, East Gulf States, and West Gulf States.

TABLE I.—Climatological data for Weather Bureau stations, October, 1924—Continued

Table with columns for Districts and stations, Elevation of instruments, Pressure, Temperature of the air, Precipitation, and Wind. Rows include various locations such as Chattanooga, Buffalo, Alpena, Moorhead, Minneapolis, and Yankton.

TABLE I.—Climatological data for Weather Bureau stations, October, 1924—Continued

Table with columns for Districts and stations, Elevation of instruments, Pressure, Temperature of the air, Precipitation, and Wind. Rows include Northern Slope, Middle Slope, Southern Slope, Southern Plateau, Middle Plateau, Northern Plateau, North Pacific Coast Region, Middle Pacific Coast Region, South Pacific Coast Region, West Indies, Panama Canal, and Alaska.

TABLE II.—Data furnished by the Canadian Meteorological Service, October, 1924

Stations	Altitude above mean sea level, Jan. 1, 1919	Pressure			Temperature of the air						Precipitation		
		Station reduced to mean of 24 hours	Sea level reduced to mean of 24 hours	Departure from normal	Mean max. + mean min. +2	Departure from normal	Mean maximum	Mean minimum	Highest	Lowest	Total	Departure from normal	Total snowfall
	Feet	In.	In.	In.	°F.	°F.	°F.	°F.	°F.	°F.	In.	In.	In.
St. Johns, N. F.	125												
Sydney, C. B. I.	48												
Halifax, N. S.	88	29.90	30.01	+0.01	49.4	+2.2	58.1	40.7	70	27	3.62	-1.93	0.0
Yarmouth, N. S.	65	29.92	29.99	-0.03	48.5	+0.9	55.6	41.4	70	26	3.54	-1.16	0.0
Charlottetown, P. E. I.	38	29.93	29.97	+0.01	47.9	+1.4	54.1	41.8	65	31	0.68	-4.22	0.0
Chatham, N. B.	28	29.91	29.93	-0.03	45.6	+2.6	56.7	34.5	72	20	0.42	-3.44	0.2
Father Point, Que.	20	30.02	30.04	+0.09	37.5	-2.3	45.9	29.1	68	14	1.78	-1.12	0.0
Quebec, Que.	296	29.80	30.13	+1.13	46.3	+3.9	54.1	38.6	68	24	1.55	-2.60	2.0
Montreal, Que.	187	29.94	30.15	+1.14	48.3	+3.5	55.6	41.1	69	30	0.42	-2.71	T.
Stonecliffe, Ont.	489												
Ottawa, Ont.	236	29.90	30.17	+1.16	49.5	+5.7	62.3	36.8	76	28	0.40	-2.15	T.
Kingston, Ont.	285	29.88	30.19	+1.16	50.2	+3.2	58.6	41.9	72	33	0.30	-2.43	0.0
Toronto, Ont.	379	29.80	30.21	+1.17	50.6	+4.0	60.8	40.4	72	31	0.61	-1.75	0.0
Cochrane, Ont.	930				43.5		53.7	33.3	75	16	0.90		0.0
White River, Ont.	1,244	28.80	30.13	+1.15	42.8	+5.7	56.2	29.3	69	14	1.03	-1.32	T.
Port Stanley, Ont.	592												
Southampton, Ont.	656	29.48			49.6	+3.5	59.0	40.1	70	31	0.58	-2.59	0.0
Parry Sound, Ont.	688	29.49	30.19	+1.18	48.9	+5.0	59.2	38.6	73	29	0.76	-3.16	0.0
Port Arthur, Ont.	644	29.38	30.10	+1.12	47.5	+7.6	55.3	39.7	64	26	2.75	+0.19	0.0
Winnipeg, Man.	760												
Minnedosa, Man.	1,690	28.10	29.92	-0.05	46.6	+8.8	57.1	36.1	74	28	2.17	+0.97	1.1
Le Pas, Man.	860				44.5		56.3	32.7	68	18	1.16		T.
Qu'Appelle, Sask.	2,115	27.62	29.86	-1.11	46.8	+7.4	58.1	35.6	76	20	2.05	+0.95	8.0
Medicine Hat, Alb.	2,144	27.58	29.85	-1.12	49.4	+4.6	61.1	37.7	79	26	0.80	+0.22	0.0
Moose Jaw, Sask.	1,759				48.1		61.0	35.3	76	19	1.46		0.5
Swift Current, Sask.	2,392	27.35	29.88	-0.09	46.4	+4.3	58.5	34.4	78	16	2.76	+1.88	0.0
Calgary, Alb.	3,428												
Banff, Alb.	4,521												
Edmonton, Alb.	2,150	27.52	29.80	-1.13	43.6	+2.5	55.7	31.5	69	20	1.21	+0.51	5.2
Prince Albert, Sask.	1,450	28.32	29.90	-0.07	45.4	+8.3	56.5	34.4	68	24	1.73	+0.90	1.2
Battleford, Sask.	1,592	28.12	29.86	-1.11	45.5	+5.9	57.5	33.5	72	16	0.72	+0.27	0.0
Kamloops, B. C.	1,262												
Victoria, B. C.	230	29.65	29.90	-1.11	51.4	+2.2	56.7	46.2	64	40	3.10	+0.73	0.0

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Battleford, Sask.	1,592												
Kamloops, B. C.	1,262	28.65	29.93	-0.04	60.4	+3.0	72.6	48.2	89	35	0.86	+0.1	0.0
Barkerville, B. C.	4,180	25.62	29.90	-0.08	45.9	-0.8	54.9	37.0	71	22	4.12	+1.21	1.2
Calgary, Alb.	3,428	26.36	29.89	-0.03	55.2	+5.4	71.3	39.1	86	26	1.26	-0.10	0.1
Winnipeg, Man.	760	29.15	29.98	+1.04	54.3	+1.8	65.9	42.8	85	28	3.64	+1.61	0.0
St. Johns, N. F.	125	29.84	29.97	-0.00	55.9	+1.9	63.4	48.5	78	38	4.01	+0.30	0.0